

ExxonMobil
Refining & Supply Company
Global Remediation
4096 Piedmont Avenue #194
Oakland, California 94611
510.547.8196
510.547.8706 Fax
jennifer.c.sedlachek@exxonmobil.com

Jennifer C. Sedlachek
Project Manager

ExxonMobil
Refining & Supply

May 2, 2005

Mr. Jim Tishler
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

RE: Former Mobil RAS #SR-OSA/257 College Avenue, Santa Rosa, California.

Dear Mr. Tishler:

Attached for your review and comment is a copy of the letter report entitled *Site Survey Clarification Report*, dated May 2, 2005, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Petaluma, California, and details groundwater monitoring and sampling activities for the subject site.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

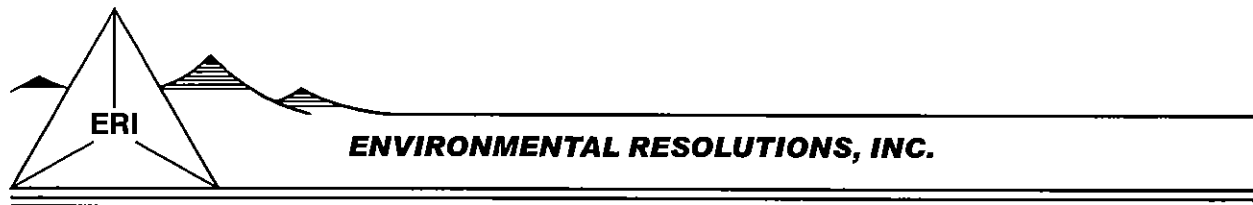


Jennifer C. Sedlachek
Project Manager

Attachment: ERI's Site Survey Clarification Report, dated May 2, 2005.

cc: w/ attachment
Mr. Tim Michell, Mission Hand Car Wash and Quik Lube
Mr. Paul Lowenthal, City of Santa Rosa Fire Department

w/o attachment
Mr. James F. Chappell, Environmental Resolutions, Inc.



May 2, 2005
ERI 259214.R03

Jennifer C. Sedlachek
ExxonMobil Refining & Supply – Global Remediation
4096 Piedmont Avenue #194
Oakland, California 94611

Subject: Site Survey Clarification Report, Former Mobil Service Station SR-OSA,
257 College Avenue, Santa Rosa, California.

Ms. Sedlachek:

At the request of ExxonMobil Oil Corporation (ExxonMobil), Environmental Resolutions, Inc. (ERI) prepared this report in response to a telephone conversation with Mr. Jim Tischler of the California Regional Water Quality Control Board, North Coast Region (the Regional Board), on February 17, 2005. Mr. Tischler requested ERI further evaluate discrepancies between mapped and actual monitoring well locations, as discussed in ERI's *Amendment to Work Plan* (the Amendment), dated December 6, 2004.

As stated in the Amendment, after completing the field work described in ERI's *Work Plan for Supplemental Evaluation of Soil and Groundwater* (the Work Plan), dated September 14, 2004, ERI contracted with a California state-licensed surveyor to re-survey the site and wells MW1 through MW7. After the site was re-surveyed, ERI generated a new Generalized Site Plan (GSP) (Plate 1). The new GSP was not consistent with the earlier GSPs. ERI investigated the discrepancy by reviewing old maps from consultants prior to ERI. Copies of these site maps, reproduced at a scale of 1 inch equals 60 feet, are included as Attachment A.

In 1989, Emcon Associates produced the first map of the subject site. In 1993, Kleinfelder took over the subject site and produced a site map using the Emcon Associates map. In 1999, TRC became the new consultant for the subject site and had the site re-surveyed by Doble Tomas Associates on November 11, 2001. Using the November 11, 2001, survey, TRC generated a new site map. In 2003, ERI became the new consultant for the subject site and used the TRC map to generate ERI's old GSP. The old GSP was submitted with the Work Plan.

ERI compiled the maps from the three previous consultants and ERI's new GSP generated from the January 18, 2005 survey. ERI scaled all the maps to the same scale and overlaid them. Based on this comparison, the TRC map presented a significant change in the locations of the monitoring wells.

In addition, ERI generated a map showing the original and corrected surveyed locations of the monitoring wells associated with the site. Using data submitted to Geotracker, ERI plotted the original monitoring well locations on the corrected GSP. This map is provided as Plate 2. The corrected locations are approximately 37 feet south and 5 feet west of the old locations. ERI concludes that the TRC survey and map were not accurate.

ERI will use the corrected GSP, generated from the January 18, 2005 survey, for all future submittals. In addition, ERI will upload the corrected monitoring well locations to Geotracker.

DOCUMENT DISTRIBUTION

ERI recommends that signed copies of this report be sent to the following:

Mr. Jim Tischler
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Mr. Paul Lowenthal
City of Santa Rosa Fire Department
955 Sonoma Avenue
Santa Rosa, California 95404

Mr. Tim Michell
Mission Hand Car Wash and Quik Lube
59 Mission Circle
Santa Rosa, California 95409

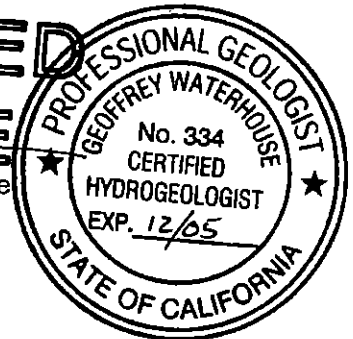
Please call Mr. James F. Chappell, ERI's project manager for this site, at (707) 766-2000 if you have questions regarding this report.

Sincerely,
Environmental Resolutions, Inc.

Lyza A. Cullmann

Lyza A. Cullmann
Senior Staff Geologist
**SCANNED
IMAGE**

Geoffrey V. Waterhouse
P.G. 5019
C.H.G. 334
C.E.G. 1561



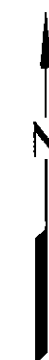
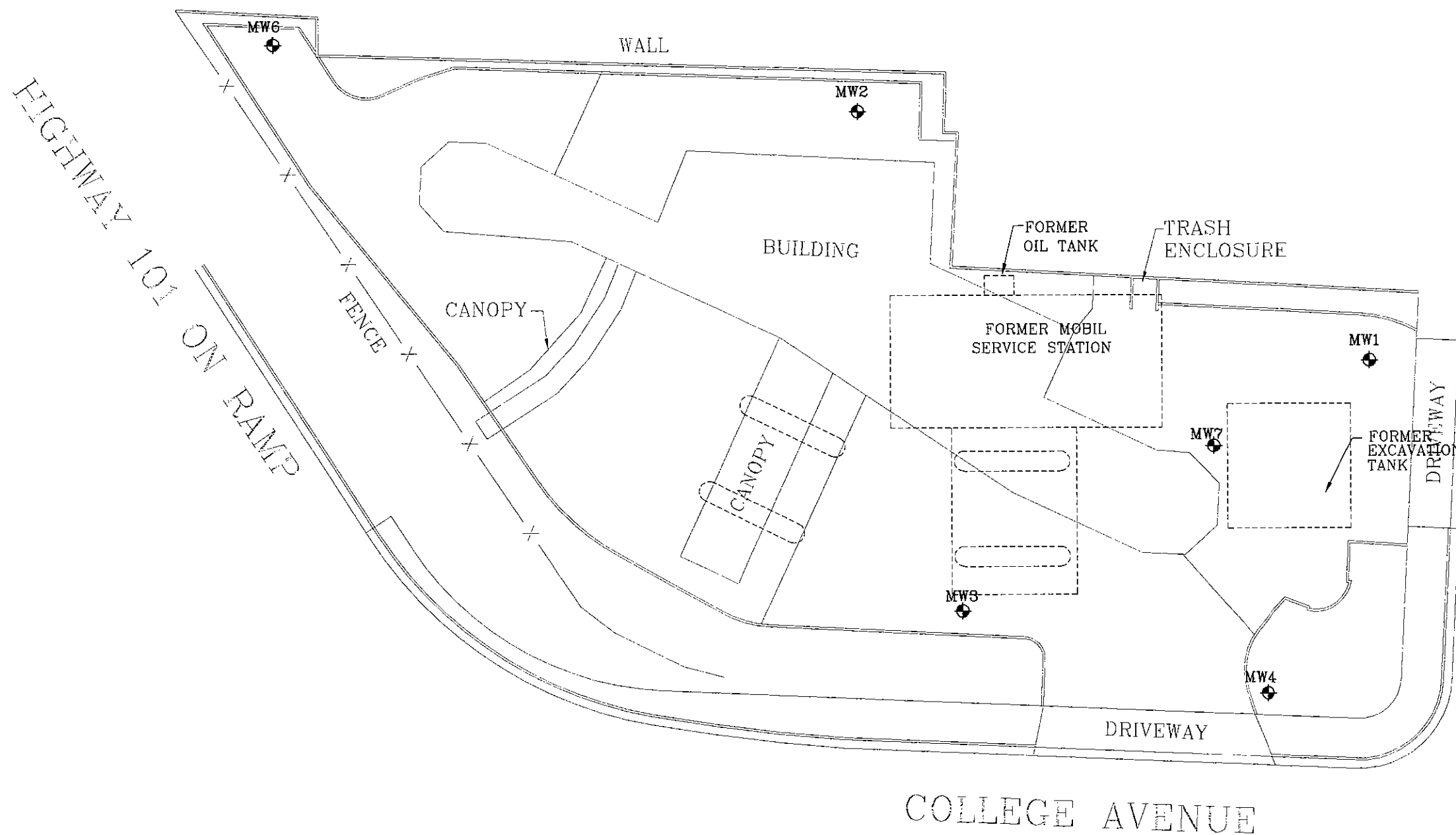
Attachments: Reference

Plate 1: Generalized Site Plan
Plate 2: Original vs. Corrected Monitoring Well Locations

Attachment A: Previous Site Maps (EMCON, Kleinfelder, and TRC)

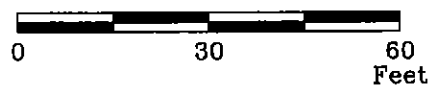
REFERENCES

Environmental Resolutions, Inc. December 18, 2002. Work Plan for Supplemental Evaluation of Soil and Groundwater, Former Mobil Station SR-OSA, 257 College Avenue, Santa Rosa, California.
ERI 259203.W01.



MORGAN STREET

APPROXIMATE SCALE



FN 25920002_SP



GENERALIZED SITE PLAN
Re-Surveyed January 18, 2005
 FORMER
 MOBIL SERVICE STATION SR-OSA
 257 College Avenue
 Santa Rosa, California

EXPLANATION

MW7
 ◆ Groundwater Monitoring Well

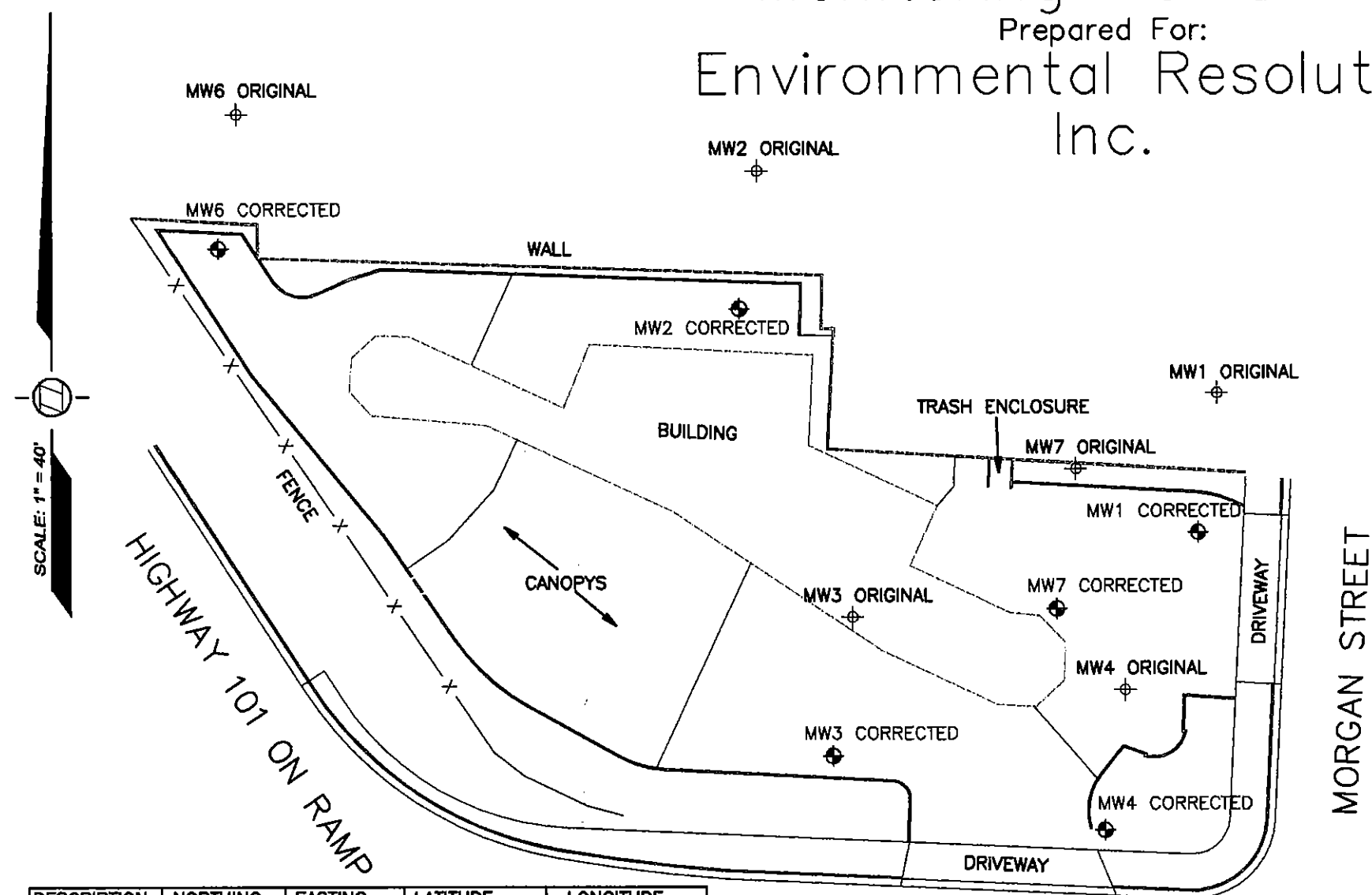
○ Former Pump Islands

PROJECT NO.
 2592

PLATE
 1

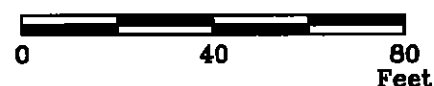
Monitoring Well Exhibit

Prepared For:
Environmental Resolutions,
Inc.



DESCRIPTION	NORTHING	EASTING	LATITUDE	LONGITUDE
MW-1 (OLD)	1925151.7	6354701.8	38.4462290	-122.7226452
MW-2 (OLD)	1925219.4	6354580.1	38.4463876	-122.7230719
MW-3 (OLD)	1925092.4	6354605.1	38.4460642	-122.7229811
MW-4 (OLD)	1925073.2	6354677.5	38.4460130	-122.7227279
MW-6 (OLD)	1925225.8	6354442.1	38.4464269	-122.7235541
MW-7 (OLD)	1925131.5	6354664.4	38.4461728	-122.7222253

APPROXIMATE SCALE



FN 2592R03_MORROW SURVEY_SP



ORIGINAL vs. CORRECTED
MONITORING WELL LOCATIONS
FORMER
MOBIL SERVICE STATION SR-OSA
257 College Avenue
Santa Rosa, California

EXPLANATION

- MW7 CORRECTED
Groundwater Monitoring Well
- MW7 ORIGINAL
Old Groundwater Monitoring Well

DESCRIPTION	NORTHING	EASTING	ELEV (PVC)	ELEV (BOX)
MW-1	1925114.6	6354696.4	149.95	150.43
MW-2	1925173.7	6354574.9	151.18	151.59
MW-3	1925055.6	6354599.5	149.86	150.23
MW-4	1925036.0	6354671.7	150.84	151.14
MW-6	1925189.7	6354437.1	150.42	150.83
MW-7	1925094.5	6354659.0	150.88	151.28
B-1	1925113.9	6354662.4		
B-2	1925111.6	6354682.5		
B-4	1925082.9	6354589.5		
B-5	1925066.0	6354564.7		
B-6	1925073.2	6354524.3		
B-7	1925114.6	6354543.8		
SB-1	1925087.7	6354603.3		
SB-2	1925073.7	6354629.4		
SB-4	1925091.1	6354686.4		

DESCRIPTION	LATITUDE	LONGITUDE
MW-1	38.4461270	-122.7226630
MW-2	38.4462868	-122.7230888
MW-3	38.4459630	-122.7229998
MW-4	38.4459108	-122.7227470
MW-6	38.4463276	-122.7235704
MW-7	38.4460709	-122.7227929
B-1	38.4461244	-122.7227817
B-2	38.4461184	-122.7227115
B-4	38.4460377	-122.7230352
B-5	38.4459907	-122.7231215
B-6	38.4460097	-122.7232627
B-7	38.4461239	-122.7231959
SB-1	38.4460512	-122.7229874
SB-2	38.4460133	-122.7228960
SB-4	38.4460622	-122.7226974

BASIS OF COORDINATES AND ELEVATIONS:

COORDINATES ARE CALIFORNIA STATE PLANE ZONE 2 COORDINATES FROM GPS OBSERVATIONS USING UNIVERSITY OF CALIFORNIA BAY AREA DEFORMATION CORS STATION OBSERVATION FILES AND BASED ON THE CALIFORNIA SPATIAL REFERENCE CENTER DATUM, REFERENCE EPOCH 2000.35.

COORDINATE DATUM IS NAD 83(1986).

DATUM ELLIPSOID IS GRS80.

REFERENCE GEOID IS NGS99.

CORS STATIONS USED WERE FARB AND SUTB.

VERTICAL DATUM IS BASED CITY OF SANTA ROSA BENCHMARK D-174, EL = 150.035.

PROJECT NO.

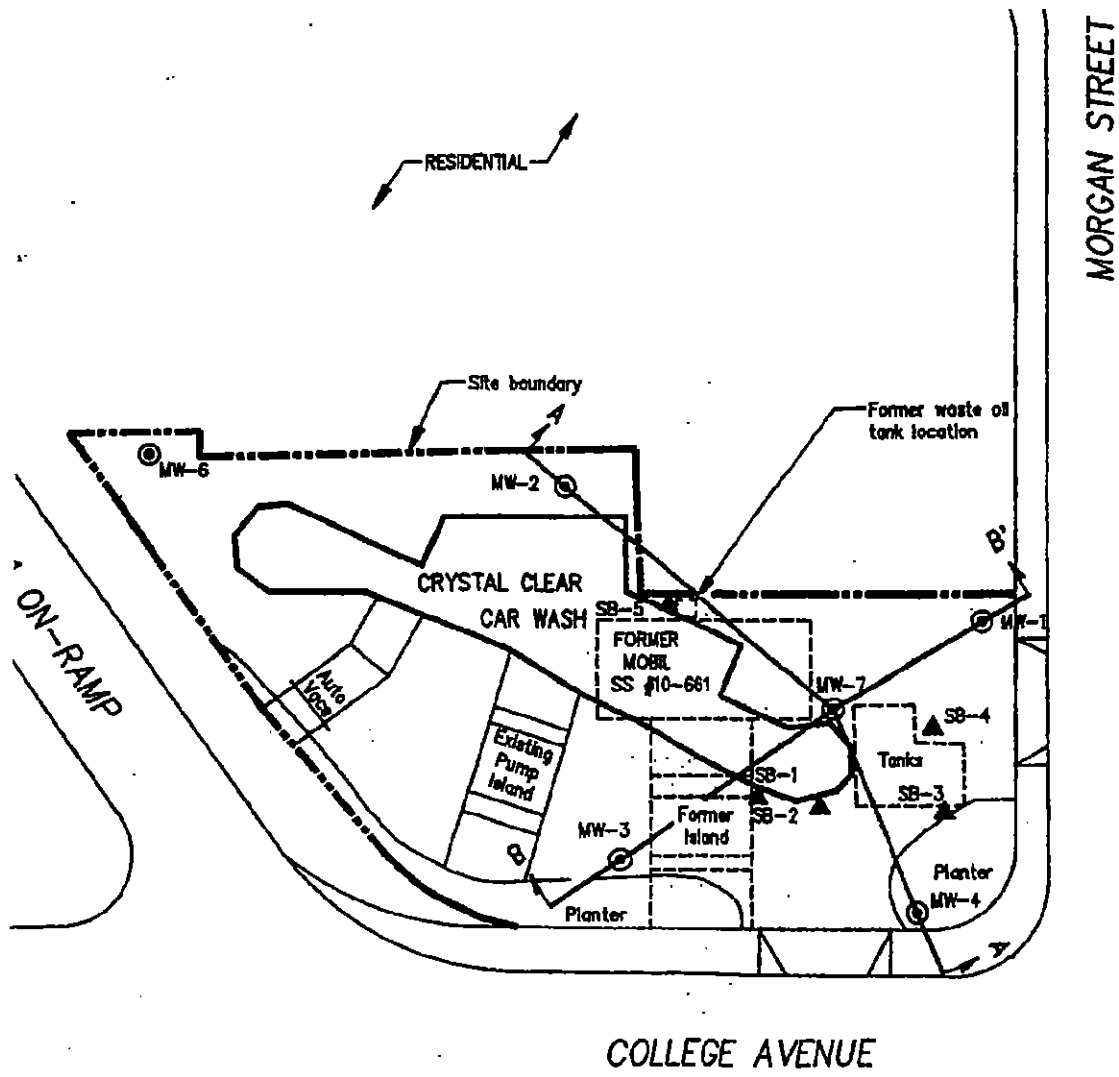
2592

PLATE

2

ATTACHMENT A

PREVIOUS SITE MAPS
(EMCO, KLEINFELDER, AND TRC)



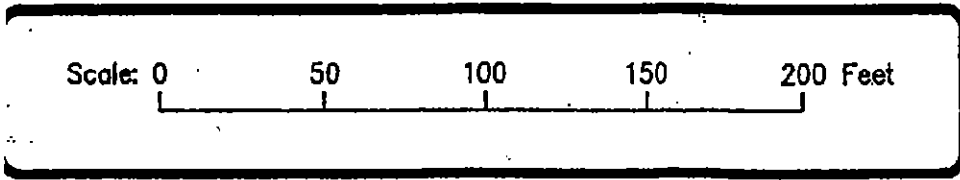
LEGEND

⊙ Ground-water monitoring well
 ▲ Exploratory soil boring*

A — A' Cross-section line

Note:

* Attempts to advance borings SB-2 and SB-5 were unsuccessful.



MOBIL OIL CORPORATION
 FORMER SERVICE STATION NO. 10-661
 257 COLLEGE AVENUE
 SANTA ROSA, CALIFORNIA

SITE MAP

FIGURE
2
 PROJECT NO.
 361-68.04

CADD FILE: D:\ACAD\DWG\MOBIL\3610604
 Emcon Associates

CARRILLO STREET

Sidewalk

Residential Area

NORTHBOUND US 101 ON-RAMP

MORGAN STREET

LEGEND

----- FORMER SITE FEATURE

----- PROPERTY LINE

----- EXISTING UNDERGROUND FEATURE

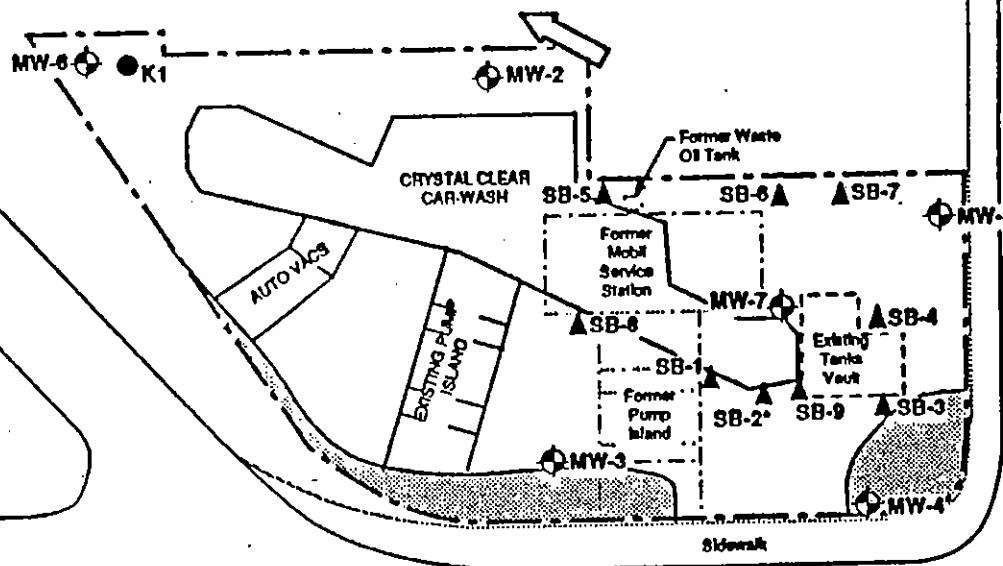
PLANTER

GROUND WATER MONITORING WELL

PREVIOUS SOIL BORING

KLEINFELDER SOIL BORING

APPROXIMATE DIRECTION OF GROUND WATER FLOW



COLLEGE AVENUE

NOTE:

* Soil boring SB-2 was not completed.



© 1994, by Kleinfelder, Inc.

KH KLEINFELDER

SITE PLAN

MOBIL OIL CORPORATION
FORMER SERVICE STATION #SR-0SA
257 COLLEGE AVENUE
SANTA ROSA, CALIFORNIA

DRAFTED BY: L. Sue

DATE: 1-13-94

CHECKED BY: D. Carroll

DATE: 1-14-94


PROJECT NUMBER 10-2302-63

PLATE

2

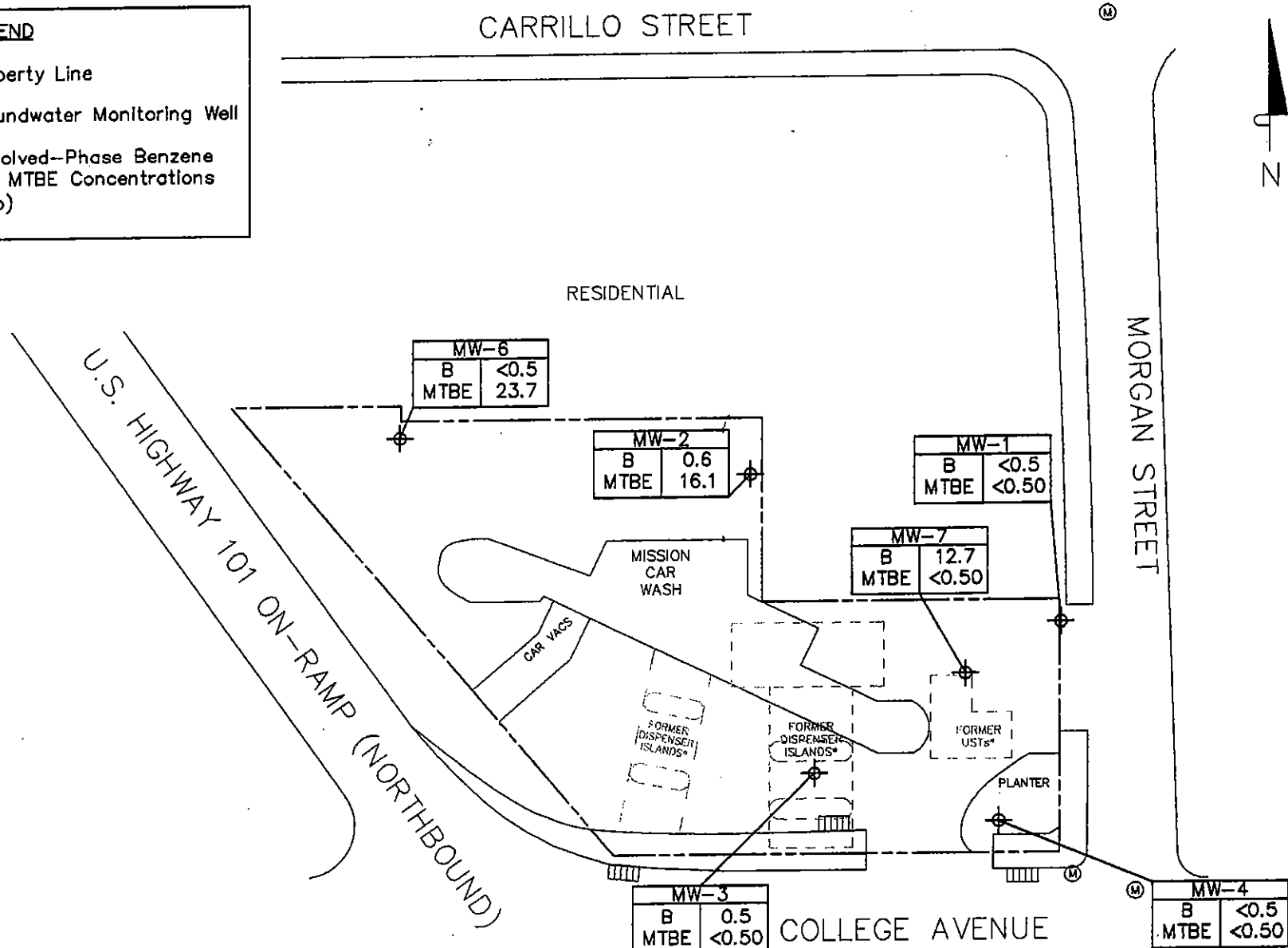
LEGEND

----- Property Line

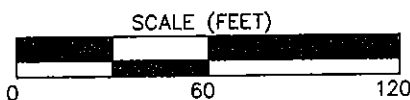
MW-6  Groundwater Monitoring Well

MW-6	
B	
MTBE	

Dissolved-Phase Benzene and MTBE Concentrations (ppb)



NOTES:
 Site plan revised per well survey on 11/06/01 by Doble Thomas Associates. * = Locations of all former site features are approximate. Results are based on laboratory analysis of groundwater samples collected on November 13, 2002. ppb = parts per billion; B = benzene; MTBE = methyl tert butyl ether confirmed by EPA Method 8260; < = not detected at or above the stated method detection limit.



SOURCE: EMCON Associates

**DISSOLVED-PHASE BENZENE AND MTBE
 CONCENTRATIONS
 November 13, 2002**

Former Mobil Station SR-OSA
 257 College Avenue
 Santa Rosa, California

TRC

FIGURE 3